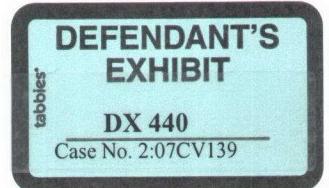


# EXHIBIT 14



# Biacore measurements for the interaction between captured antibody (25 µg/ml) and soluble rhTNF $\alpha$ (2.5 - 1000 nM)

Sample	Ab Class	Captured antibody	Stoich. range	On-rate (M-1s-1)	Off-rate (s-1)	$K_D$ (M)
1	Murine IgG	Peptech 001	0.23 - 0.47	1.04E+06	5.02E-04	4.83E-10
2	Murine IgG	Peptech 25	0.31 - 0.64	8.31E+05	1.85E-04	2.23E-10
3	Murine IgG	Peptech 37	- 0.03 - 0.09 <sup>c</sup>	4.25E+05	1.47E-03	3.45E-09
4	Murine IgG	<sup>ab</sup> Peptech 42	- 0.01 - 0.46	3.73E+04	3.85E-04	1.03E-08
5	Murine IgG	<sup>ab</sup> Peptech 53	- 0.04 - 0.60	4.08E+04	4.08E-04	9.99E-09
6	Murine IgG	Peptech 54	0.27 - 0.52	6.61E+05	3.37E-04	5.10E-10
7	Human IgG1	Remicade	0.45 - 0.81	6.26E+05	3.56E-05	5.69E-11
8	Murine IgG3	Segard	0.55 - 0.91	6.44E+05	1.62E-05	2.52E-11
9	Human IgG1	D2E7	0.47 - 1.45	3.44E+05	6.84E-05	1.99E-10

<sup>a</sup>1 : 1 Langmuir model did not fit the experimental data very well.

<sup>b</sup>The shape of the experimental dissociation phase suggests that there might be more than one process involved.  
<sup>c</sup>Analyte response level was very low.

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PLAINTIFFS' EXHIBIT 68  
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# Reactivity pattern matrix showing the binding ability of pairs of Mabs to rhTNF $\alpha$

## Pair-wise epitope mapping by Biacore

Sample	2° Soluble Immune complex (Ab:Ag ratio = 4:1)	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		
		Remicade	D2E7	Segard
1	rhTNF $\alpha$	+	+	+
2	rhTNF $\alpha$ + Mouse IgG	+	+	+
3	rhTNF $\alpha$ + Human IgG	+	+	+
4	rhTNF $\alpha$ + Peptech Mab 1	+	+	+
5	rhTNF $\alpha$ + Peptech Mab 25	+	-	+
6	rhTNF $\alpha$ + Peptech Mab 37	+	+	+
7	rhTNF $\alpha$ + Peptech Mab 42	-	?	+
8	rhTNF $\alpha$ + Peptech Mab 53	-	?	+
9	rhTNF $\alpha$ + Peptech Mab 54	+	+	+
10	rhTNF $\alpha$ + Remicade	-	-	-
11	rhTNF $\alpha$ + Segard	-	-	-
12	rhTNF $\alpha$ + D2E7	-	-	-

- + Pairs of Mabs that bind concurrently
- Pairs of Mabs that interfere in binding

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Sample	Ab Class	Captured antibody	Individual Biacore Kinetic Rate Parameters		
			Stoich. range	On-rate (M-1s-1)	Off-rate (s-1)
1	Murine IgG	Peptech 001	0.23 - 0.47	1.04E+06	5.02E-04
2	Murine IgG	Peptech 25	0.31 - 0.64	8.31E+05	1.85E-04
3	Murine IgG	Peptech 37	- 0.03 - 0.09 <sup>c</sup>	4.25E+05	1.47E-03
4	Murine IgG	ab Peptech 42	- 0.01 - 0.46	3.73E+04	3.85E-04
5	Murine IgG	ab Peptech 53	- 0.04 - 0.60	4.08E+04	4.08E-04
6	Murine IgG	Peptech 54	0.27 - 0.52	6.61E+05	3.37E-04
7	Human IgG1	Remicade	0.45 - 0.81	6.26E+05	3.56E-05
8	Murine IgG3	Segard	0.55 - 0.91	6.44E+05	1.62E-05
9	Human IgG1	D2E7	0.47 - 1.45	3.44E+05	6.84E-05
10	Human IgG1	<sup>d</sup> D2E7	4.82E+05	3.08E-05	

<sup>e</sup>1 : 1 Langmuir model did not fit the experimental data very well.<sup>b</sup>The shape of the experimental dissociation phase suggests that there might be more than one process involved.<sup>c</sup>Analyte response level was very low.<sup>d</sup>AFP04C D2E7 Reference standard tested May.15.2002ABBOTT-HUM 0145660  
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K <sub>D</sub> (M)
4.83E-10
2.23E-10
3.45E-09
1.03E-08
9.99E-09
5.10E-10
5.69E-11
2.52E-11
1.99E-10
6.39E-11

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**Pair-wise epitope mapping by Biacore using captured Segard**

1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			
Sample	2° Solubilized Immune complex (Ab:Ag ratio = 4:1)	Segard (RU's)	Binding
1	rhTNF $\alpha$	1176	+
2	rhTNF $\alpha$ + Mouse IgG	1010	+
3	rhTNF $\alpha$ + Human IgG	922	+
4	rhTNF $\alpha$ + Peptech Mab 1	1005	+
5	rhTNF $\alpha$ + Peptech Mab 25	637	+
6	rhTNF $\alpha$ + Peptech Mab 37	1052	+
7	rhTNF $\alpha$ + Peptech Mab 42	458	+
8	rhTNF $\alpha$ + Peptech Mab 53	411	+
9	rhTNF $\alpha$ + Peptech Mab 54	907	+
10	rhTNF $\alpha$ + Remicade	10	-
11	rhTNF $\alpha$ + Segard	106	-
12	rhTNF $\alpha$ + D2E7	26	-

1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml			
Sample	2° Soluble Antibody only	Segard (RU's)	Binding
1	rhTNF $\alpha$	1091	+
2	Mouse IgG	-3	-
3	Human IgG	-13	-
4	Peptech Mab 1	1	-
5	Peptech Mab 25	-21	-
6	Peptech Mab 37	5	-
7	Peptech Mab 42	-17	-
8	Peptech Mab 53	-19	-
9	Peptech Mab 54	-7	-
10	Remicade	-31	-
11	Segard	131	-
12	D2E7	-30	-

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### Pair-wise epitope mapping by Biacore using captured D2E7

2° Soluble immuno complex (Ab:Ag ratio = 4:1)		D2E7 (RU's)	Binding	Do antibodies share a similar binding epitope?
1	rhTNF $\alpha$	1245	+	Not applicable
2	rhTNF $\alpha$ + Mouse IgG	929	+	Not applicable
3	rhTNF $\alpha$ + Human IgG	951	+	Not applicable
4	rhTNF $\alpha$ + Peptech Mab 1	1130	+	No
5	rhTNF $\alpha$ + Peptech Mab 25	- 40	-	Yes
6	rhTNF $\alpha$ + Peptech Mab 37	968	+	No
7	rhTNF $\alpha$ + Peptech Mab 42	216	?	Maybe overlapping epitopes
8	rhTNF $\alpha$ + Peptech Mab 53	189	?	Maybe overlapping epitopes
9	rhTNF $\alpha$ + Peptech Mab 54	541	+	No
10	rhTNF $\alpha$ + Remicade	80	-	Yes
11	rhTNF $\alpha$ + Segard	- 50	-	Yes
12	rhTNF $\alpha$ + D2E7	107	-	Yes
2° Soluble Antibody only		D2E7 (RU's)	Binding	Comment
1	rhTNF $\alpha$	1236	+	Stoichiometry = 0.90
2	Mouse IgG	- 50	-	Isotype matched control
3	Human IgG	76	-	Isotype matched control
4	Peptech Mab 1	- 53	-	
5	Peptech Mab 25	- 56	-	
6	Peptech Mab 37	- 53	-	
7	Peptech Mab 42	- 50	-	
8	Peptech Mab 53	- 46	-	
9	Peptech Mab 54	- 48	-	
10	Remicade	60	-	Very little unwanted binding
11	Segard	- 47	-	
12	D2E7	98	-	Very little unwanted binding

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### Pair-wise epitope mapping by Biacore using captured Remicade

2° Solubilized Immuno complex (Ab:Ag ratio = 4:1)		Remicade (RU's)	Binding	Do antibodies share a similar binding epitope?
Sample				
1	rhTNF $\alpha$	1193	+	Not applicable
2	rhTNF $\alpha$ + Mouse IgG	868	+	Not applicable
3	rhTNF $\alpha$ + Human IgG	872	+	Not applicable
4	rhTNF $\alpha$ + Peptech Mab 1	1099	+	No
5	rhTNF $\alpha$ + Peptech Mab 25	614	+	No
6	rhTNF $\alpha$ + Peptech Mab 37	959	+	No
7	rhTNF $\alpha$ + Peptech Mab 42	45	-	Yes
8	rhTNF $\alpha$ + Peptech Mab 53	27	-	Yes
9	rhTNF $\alpha$ + Peptech Mab 54	788	+	No
10	rhTNF $\alpha$ + Remicade	113	-	Yes
11	rhTNF $\alpha$ + Segard	-48	-	Yes
12	rhTNF $\alpha$ + D2E7	91	-	Yes

2° Soluble Antibody only		Remicade (RU's)	Binding	Comment
Sample				
1	rhTNF $\alpha$	1268	+	Stoichiometry = 0.88
2	Mouse IgG	-62	-	Isotype matched control
3	Human IgG	49	-	Isotype matched control
4	Peptech Mab 1	-59	-	
5	Peptech Mab 25	-53	-	
6	Peptech Mab 37	-51	-	
7	Peptech Mab 42	-51	-	
8	Peptech Mab 53	-41	-	
9	Peptech Mab 54	-51	-	
10	Remicade	106	-	Very little unwanted binding
11	Segard	-43	-	Very little unwanted binding
12	D2E7	78	-	

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## Pair-wise epitope mapping by Biacore

Sample	2° Soluble Immune complex (Ab:Ag ratio = 4:1)	1° Captured rhTNF $\alpha$ antagonist, 25 $\mu$ g/ml		
		Remicade	D2E7	Segard
1	rhTNF $\alpha$	+	+	+
2	rhTNF $\alpha$ + Mouse IgG	+	+	+
3	rhTNF $\alpha$ + Human IgG	+	+	+
4	rhTNF $\alpha$ + Peptech Mab 1	+	+	+
5	rhTNF $\alpha$ + Peptech Mab 25	+	-	+
6	rhTNF $\alpha$ + Peptech Mab 37	+	+	+
7	rhTNF $\alpha$ + Peptech Mab 42	-	?	+
8	rhTNF $\alpha$ + Peptech Mab 53	-	?	+
9	rhTNF $\alpha$ + Peptech Mab 54	+	+	+
10	rhTNF $\alpha$ + Remicade	-	-	-
11	rhTNF $\alpha$ + Segard	-	-	-
12	rhTNF $\alpha$ + D2E7	-	-	-

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